

Work Order ID 122627

122627

Page 1

Tuesday, July 22, 2014 8:42:03 AM

Item ID: D4635-4 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Aft Ceiling Panel, RH
 Start Date: 8/19/14 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 8/19/14 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MLJ Date: 14-07-23 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4635	E								
100	HAND FINISHING THERMOFORMING	0.00							DAS 07 9-89
100									
Thermoform	Memo	0.00							
Thermoforming Machine	Cut Blanks								14/07/29
105	Dry Material	0.00							DAS 07 9-89
105									
HandThermo	Memo	0.00							
Hand Finishing Thermoforming	Dry Sheet as per QSI022 POLYCARBONATE								14/07/29
	Temp: 245 deg								
	Time IN: 5:00 PM								
	Time OUT: 6:00 AM								
	Per.....								

JUL 29 2014

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td style="width: 33%;"> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </td> <td style="width: 33%;"> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </td> <td style="width: 33%;"> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </td> <td style="width: 33%;"> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </td> </tr> </table>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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DQA: _____ Date: _____



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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

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Page 3

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>
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Work Order ID 122627

Tuesday, July 22, 2014 8:42:03 AM

122627

Page 4

Item ID: D4635-4

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Aft Ceiling Panel, RH

Start Date: 8/19/14

Start Qty: 1.00

1

Cust Item ID:

Required Date: 8/19/14

Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run

Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

170

QC21- Final Inspection - Work Order Release

0.00

170

QC

Memo

0.00

Quality Control

MLJ

14-09-04

MF
14-9-03

DQA: _____ Date: _____



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Unapproved									

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Picklist Print

Page 1

Tuesday, July 22, 2014 8:42:03 AM

Work Order ID: 122627

122627

Parent Item: D4635-4

D4635-4

Parent Item Name: Aft Ceiling Panel, RH

Start Date: 8/19/14

Required Date: 8/19/14

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A New Issue 12/05/07 DL VERIFIED BY:JLM IPP Rev.
B Dwg. Update 12/11/08 DL IPP Rev C Dwg.
Update 13/07/09 DL IPP Rev. D Dwg, Update,
Material Change 13/12/18 DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MLEXS.093-F6006-07		Purchased	No			100	sf	4,823.726	9.39	10			DAS 07 9-89

MI FXS 093-F6006-07

GE PLASTICS LEXAN SHEET (Grey)

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT023	4823.72662	
114459	229.26	
123105	38	
124501	543.5	
m128668	181.35	
m129014	102.33332	
m129471	1025.3333	
m129738	2703.95	

14/07/29

1058 ft

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

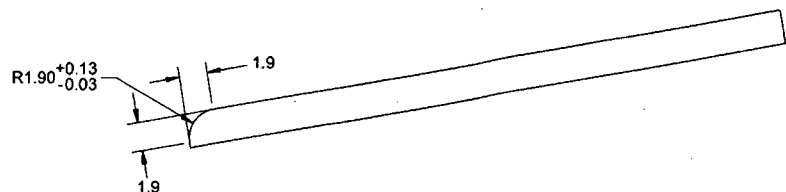
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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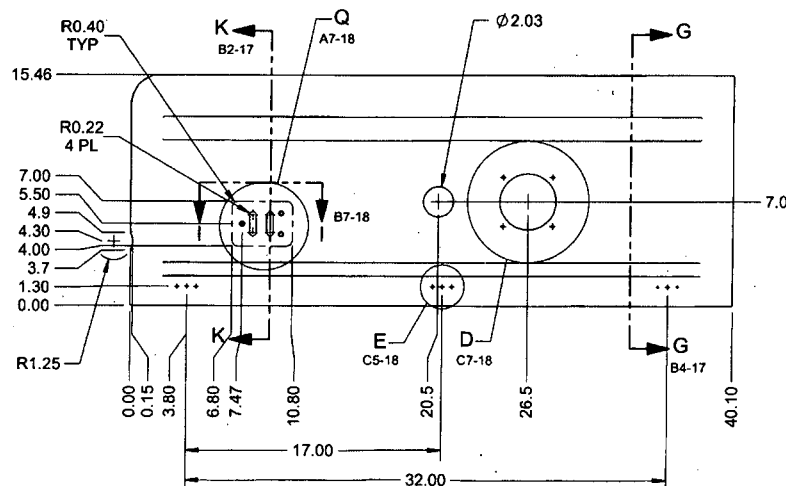


SECTION J-J C2-16

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 122627-ML5

14-07-23



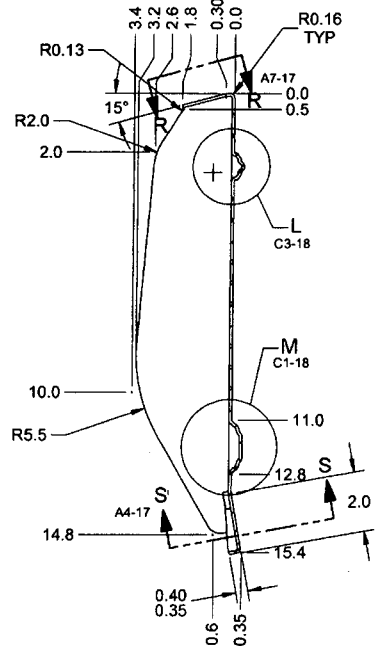
NOTES:

- 1) MATERIAL: F6006 SUEDE/POLISHED GY5B133 LIGHT GREY LEXAN SHEET 0.093 THICK (REF DART SPEC MLEXS.093-F6006-07)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 2.66 lbs
- 8) TEXTURE ON THIS SIDE
- 9) TRIM D4635-4 PER TOOL DT9842
- 10) THERMOFORM D4635-4 PER QSI 022 USING DT9850 TOOL
MIN. THICKNESS AFTER FORMING:
RIDGES/EDGES = 0.060
ELSEWHERE = 0.070

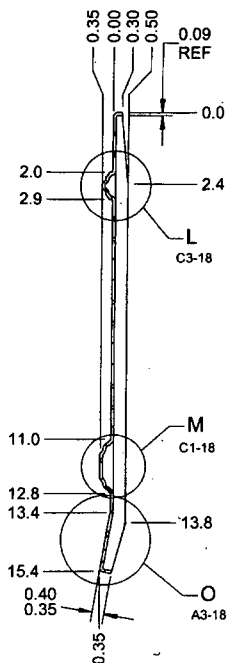
D4635-4 RH, AFT CEILING PANEL

RELEASED
2014-01-22

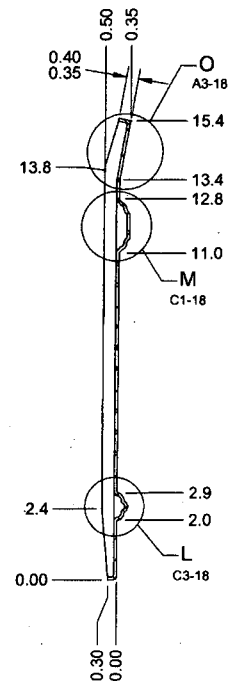
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. E
MFG. APPR.	DC	D4635	SHEET 16 OF 18
APPROVED	DC	TITLE	SCALE
DE APPR.	DC	OUTBOARD CEILING PANELS	NTS
DATE	14.01.09	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	



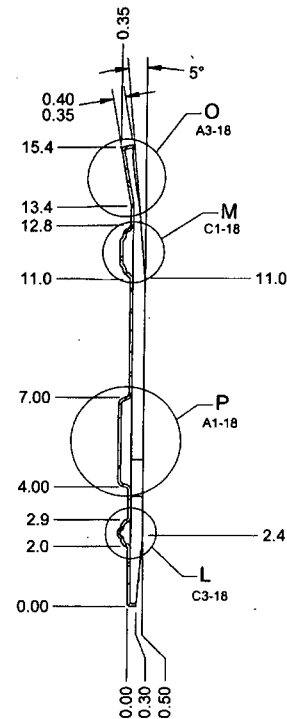
SECTION A-A
SECTION A-A' OPPOSITE
SCALE 2X



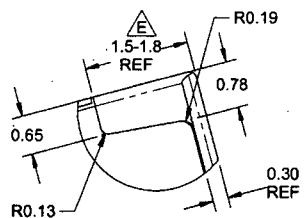
SECTION B-B
SCALE 2X



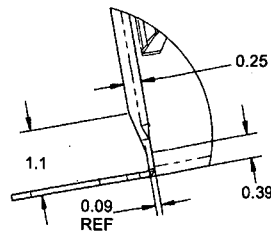
SECTION G-G
SCALE 2X



SECTION K-K
SCALE 2X



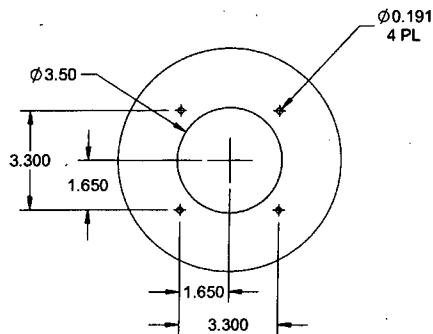
AUXILIARY VIEW R-R
SECTION R-R' OPPOSITE
SCALE 2X



AUXILIARY VIEW S-S
SECTION S-S' OPPOSITE
SCALE 2X

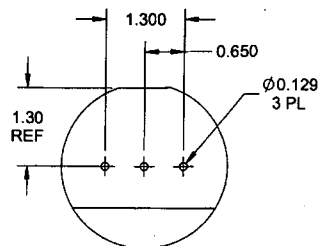
RELEASED
2014-01-22

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DC	DRAWING NO.	REV. E
MFG. APPR.	DC	D4635	SHEET 17 OF 18
APPROVED	DC	TITLE	SCALE
DE APPR.	DC	OUTBOARD CEILING PANELS	NTS
DATE	14.01.09	COPYRIGHT © 2012 BY DART AEROSPACE LTD	
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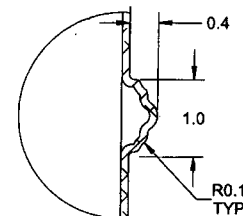
DETAIL D
SCALE 2X

B4-13
B3-14
B5-15
B5-16



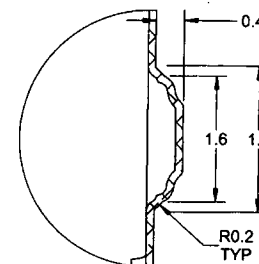
DETAIL E
SCALE 4X

C7-13
B6-14
C6-15
B5-16



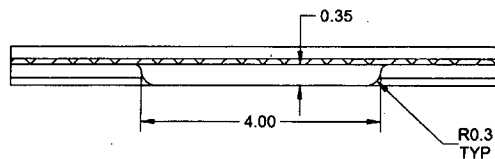
DETAIL I
SCALE 1.5X

B2-17
B4-17
C5-17
C7-17



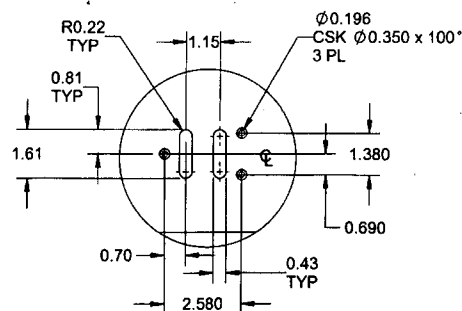
DETAIL M
SCALE 1.5X

C2-17
C3-17
C5-17
C7-17



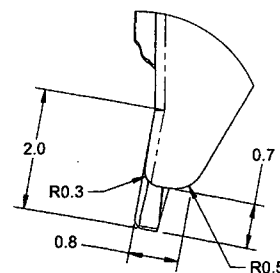
SECTION I-I
SCALE 4X

B5-16



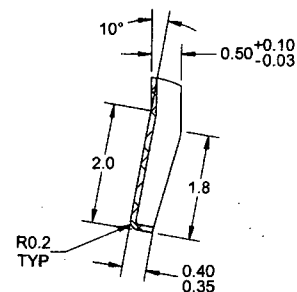
DETAIL Q
SCALE 2X

C5-16



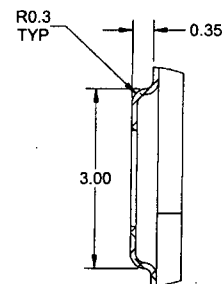
DETAIL N
SCALE 2X

B2-13



DETAIL O
SCALE 2X

D2-17
D3-17
B5-17



DETAIL P
SCALE 4X

C2-17

RELEASED
2014-01-22

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	SC	DRAWING NO.	REV. E
MFG. APPR.	SC	D4635	SHEET 18 OF 18
APPROVED	SC	TITLE	SCALE
DE APPR.	SC	OUTBOARD CEILING PANELS	NTS
DATE	14.01.09	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DART AEROSPACE LTD		Work Order:	B122627
Description: RH Aft Ceiling Panel		Part Number:	D4635-4
Inspection Dwg: D4635 Rev: E		Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
3.80	+/-0.030	3.816	✓		S Feb-21	
17.00	+/-0.030	17.00	✓		"	
32.00	+/-0.030	32.00	✓		"	
7.47	+/-0.030	7.50	✓		"	
20.5	+/-0.100	20.5	✓		"	
26.5	+/-0.100	26.5	✓		"	
7.0	+/-0.100	7.0	✓		"	
5.50	+/-0.030	5.50	✓		S Feb-08	
Ø2.03	+0.012/-0.001	2.028	✓		"	
3.300	+/-0.010	3.297	✓		"	
1.650	+/-0.010	1.6494	✓		"	
3.300	+/-0.010	3.296	✓		"	
1.650	+/-0.010	1.6496	✓		"	
Ø0.191	+0.005/-0.001	0.196	✓		"	
Ø3.50	+0.012/-0.001	3.504	✓		"	
1.300	+/-0.010	1.3004	✓		"	
0.650	+/-0.010	0.6503	✓		"	
Ø0.129	+0.005/-0.001	0.129	✓		"	
1.380	+/-0.010	1.380	✓		"	
0.43	+/-0.030	0.447	✓		"	
1.61	+/-0.030	1.607	✓		"	
0.50	+/-0.030	0.526	✓		"	
0.30	+/-0.030	0.321	✓		"	
0.35 - 0.40	+/-0.030	0.378	✓		"	

Measured by:	DAS 27	Audited by:	DAS 9	Preliminary Approval:	
Date:	14/9/13	Date:	14-09-03	Date:	

Rev	Date	Change	Revised by	Approved
A	14.07.29	New Issue	KJ	

Daryl Leger

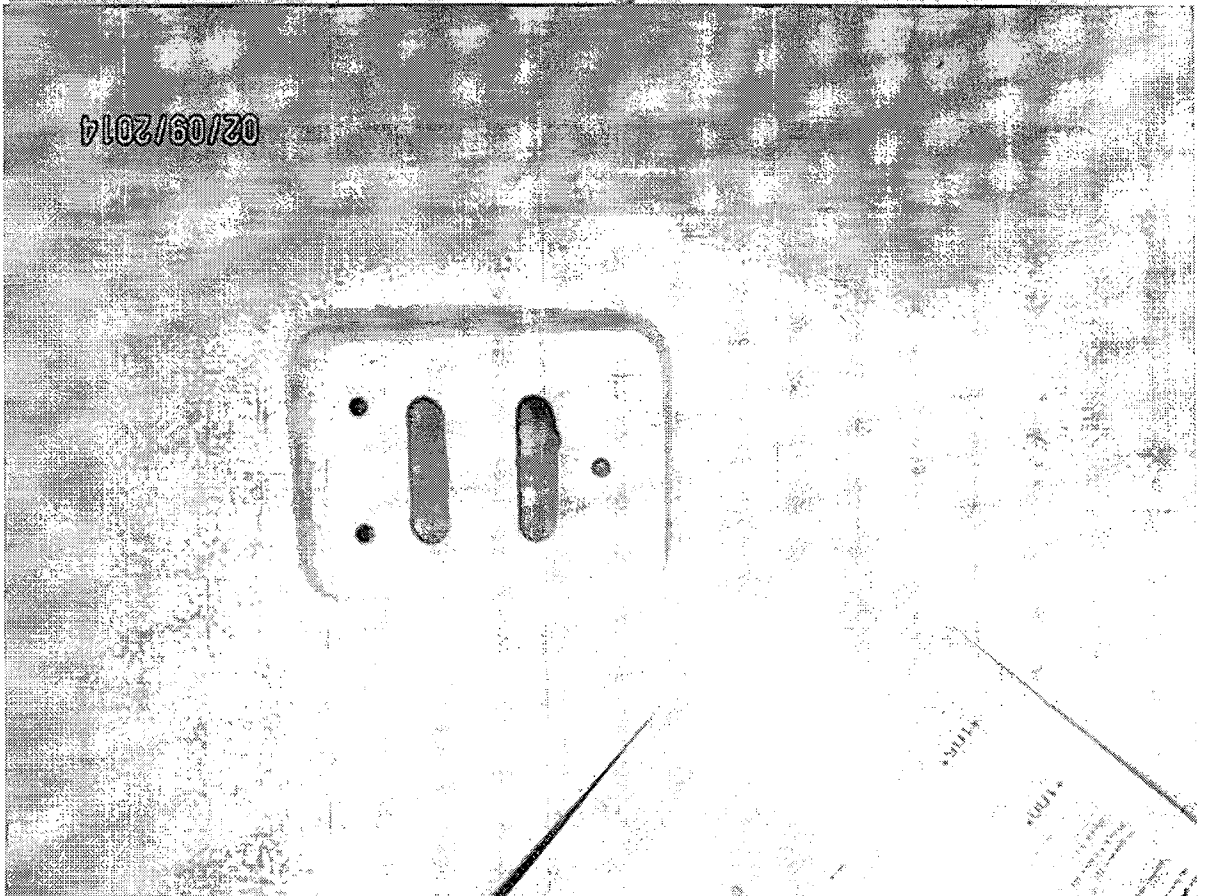
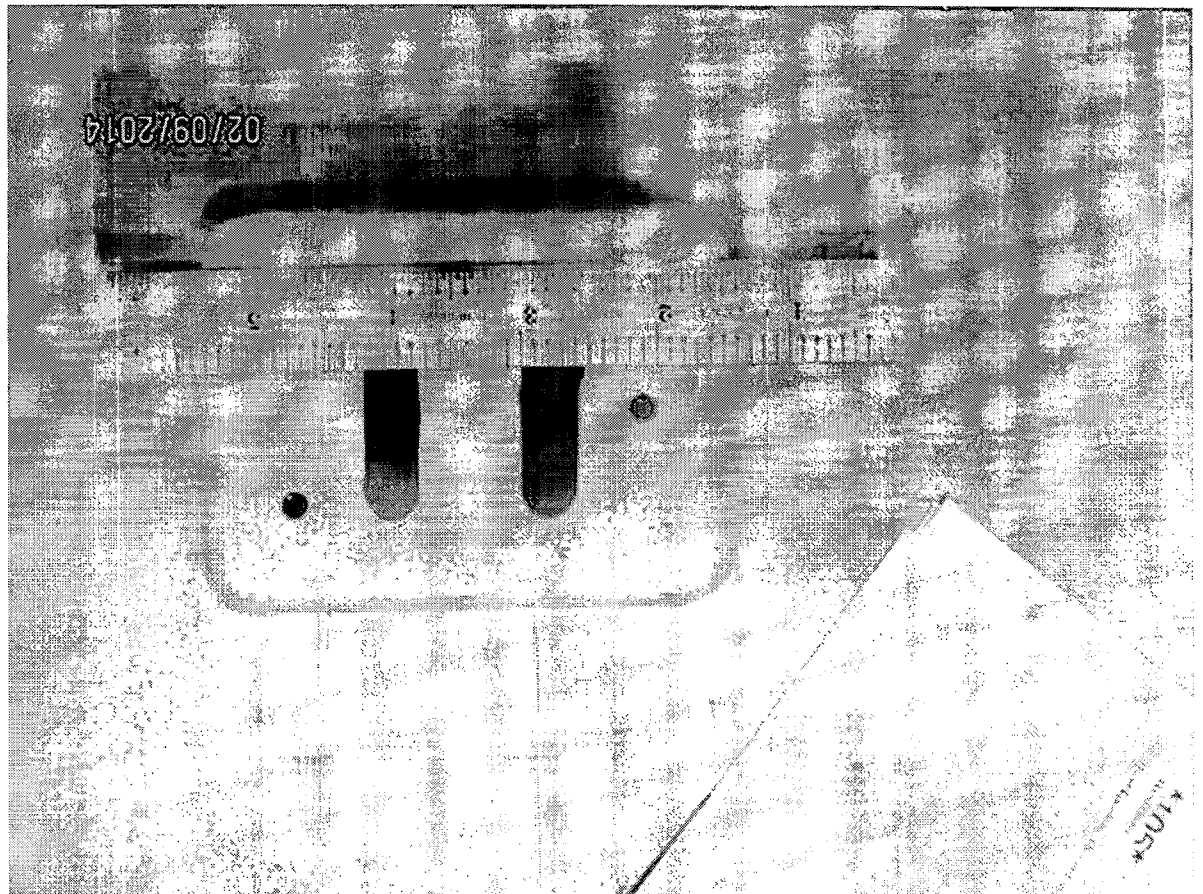
From: Daryl Leger
Sent: Tuesday, September 02, 2014 2:04 PM
To: Roberto Fuentes
Subject: 139 panel D4635-4

Roberto

If we widened the slots to approx., 0.460" we could hide most of the damage. SEE Attached Photos.

Let me know what you think.

Daryl



Daryl Leger

From: Roberto Fuentes
Sent: Tuesday, September 02, 2014 3:51 PM
To: Daryl Leger; Harvey Siemens
Subject: RE: D4635-4 opening

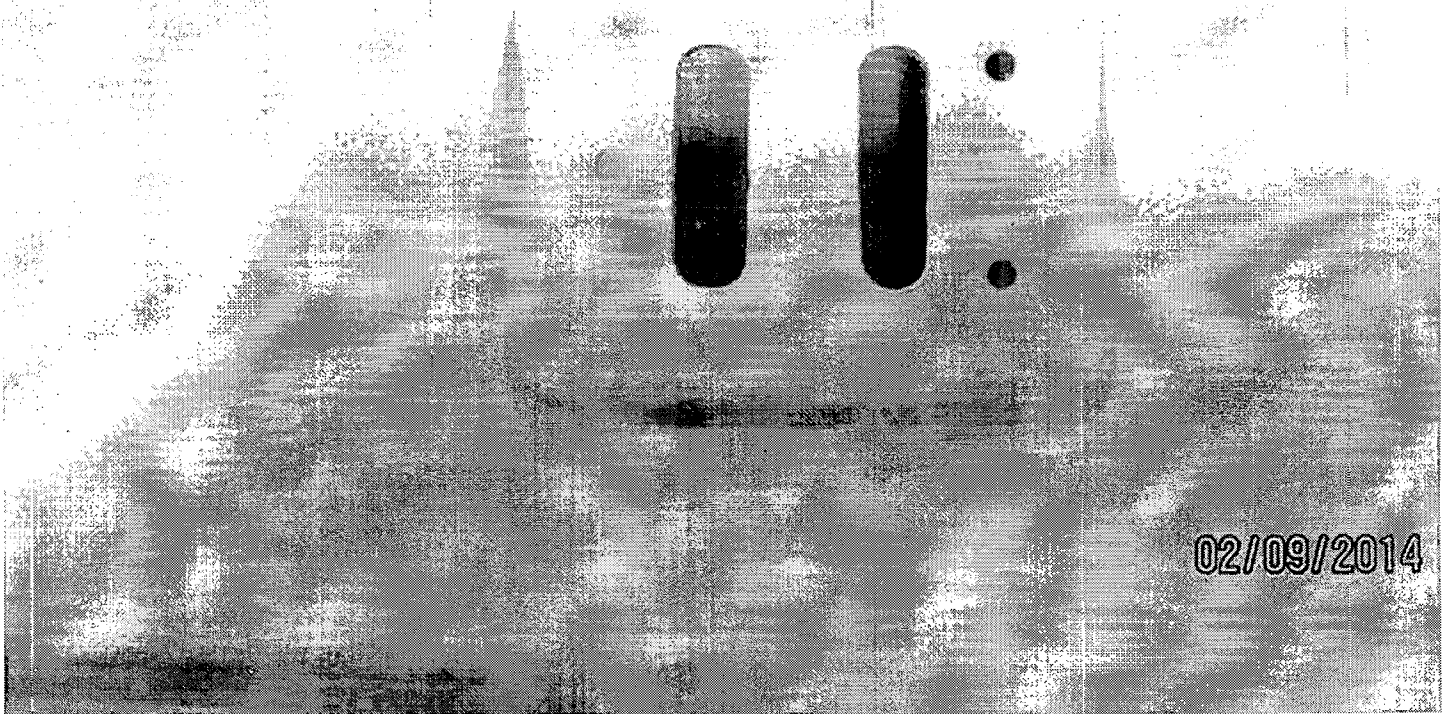
It looks acceptable Daryl, bad thing we don't have instrument goes behind the panel to consented . I will recommend work to making trimming jig for this.

Roberto

From: Daryl Leger
Sent: September-02-14 12:47 PM
To: Roberto Fuentes
Subject: RE: D4635-4 opening

After repair at 0.475" Does this look more acceptable?

Daryl



From: Roberto Fuentes
Sent: Tuesday, September 02, 2014 2:21 PM
To: Daryl Leger
Subject: D4635-4 opening

Hi Daryl,

I don't have photo straight looking to the opening, but the only two good photos are attached to this e-mail. If want me send you e-drawing with panel and the instrument, just let me know that. If the slot are a little bigger I thing be ok at longer is on center of the opening, so look even and equal space between the panel and instrument.

Those photos you send me are before widening slots to 0.460" or is one show before and after? Because doesn't look good. Call me when you have a chance please.

Roberto